```
int main(void)
{
UartInit(9600);
printf("\r\nThis is a Demonstration for \r\nUART peripheral for LPC2148\r\nDone on SBC_ARM7 Board \r\n");
printf("\r\nHit any Key on your PC Keyboard to see result\r\n");
while(1)
{
UART_PutChar(UART_GetChar()+1);
}

}

void UartInit(unsigned int baudrate){
unsigned int FDiv;
PINSEL0 = PINSEL0 & 0xFFFFFFF0;
PINSEL0 = PINSEL0 | 0x00000005;

U0LCR = 0x83;
FDiv = (15000000 / 16 ) / baudrate ;
U0DLM = FDiv /256;
U0DLL = FDiv %256;
U0LCR = 0x03;
U0TER = 0x80;
}

unsigned char UART_GetChar(void){
while(!(U0LSR & 0x1));
return(U0RBR);
}
```

```
int UART_PutChar(unsigned char Ch){
while(!(U0LSR & 0x20));
return( U0THR = Ch);
}

int fputc(int ch, FILE *f){
return (UART_PutChar(ch));
}

struct __FILE { int handle; };
FILE __stdout;
```